

FIG. 1

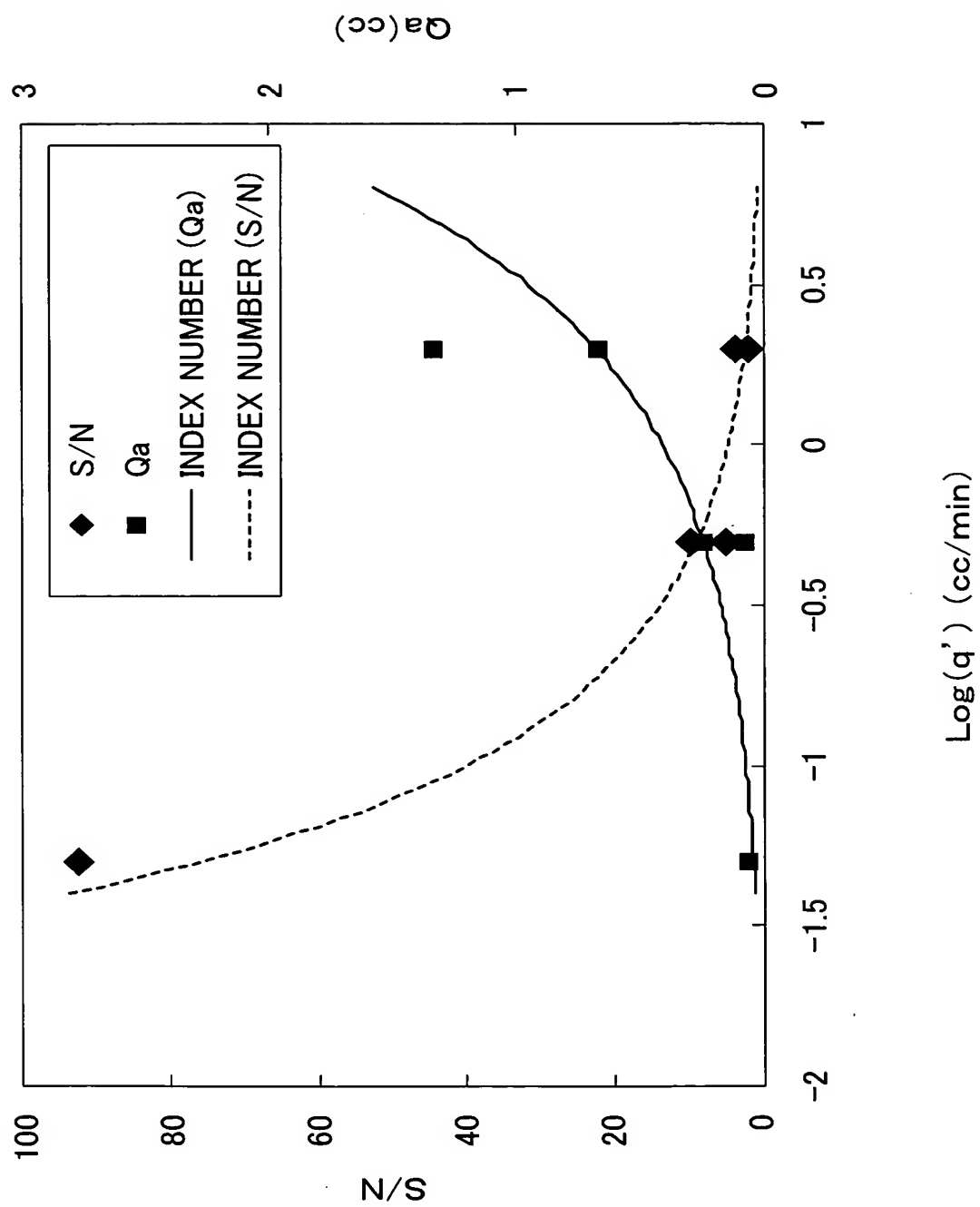


FIG. 2

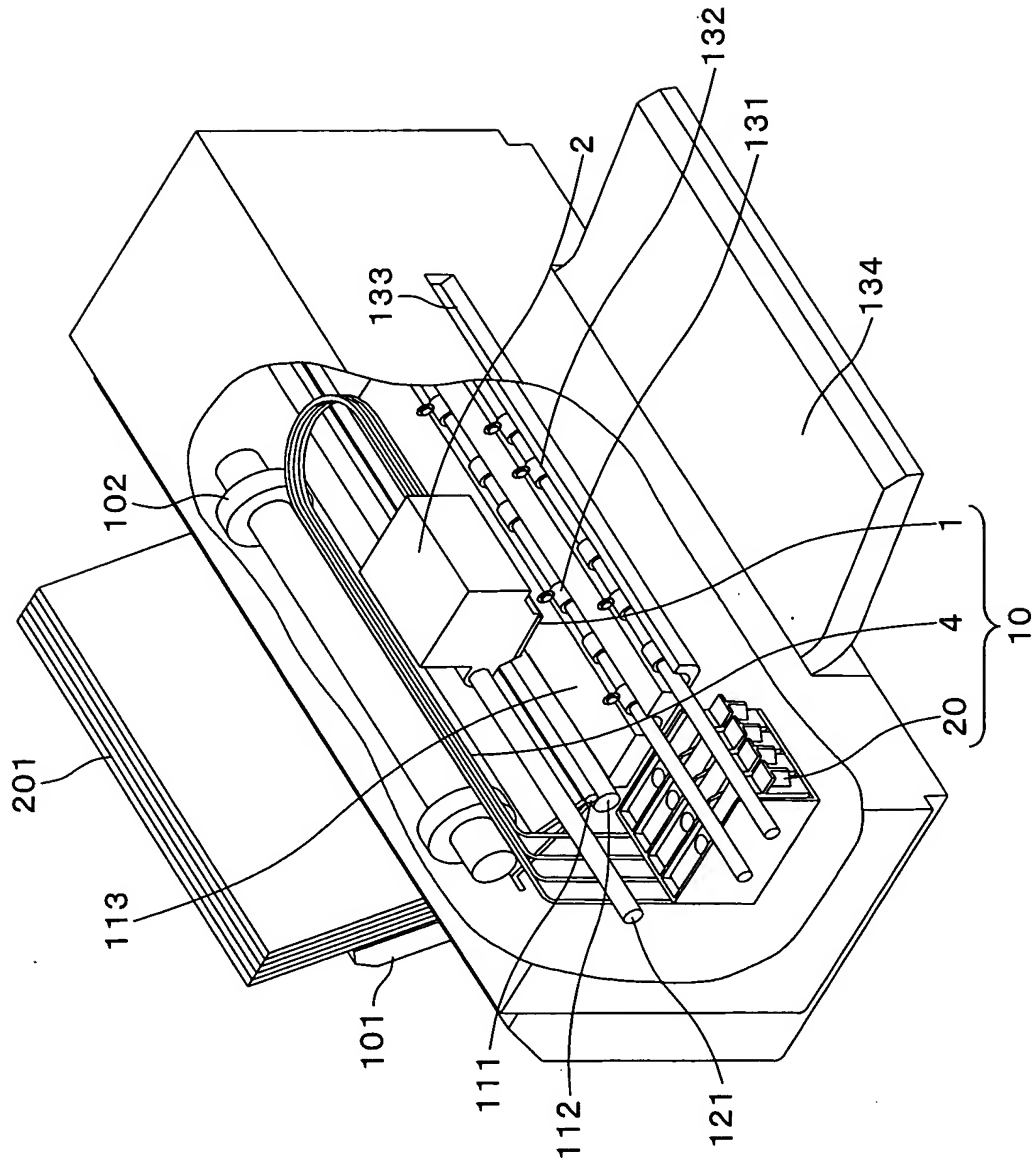


FIG. 3

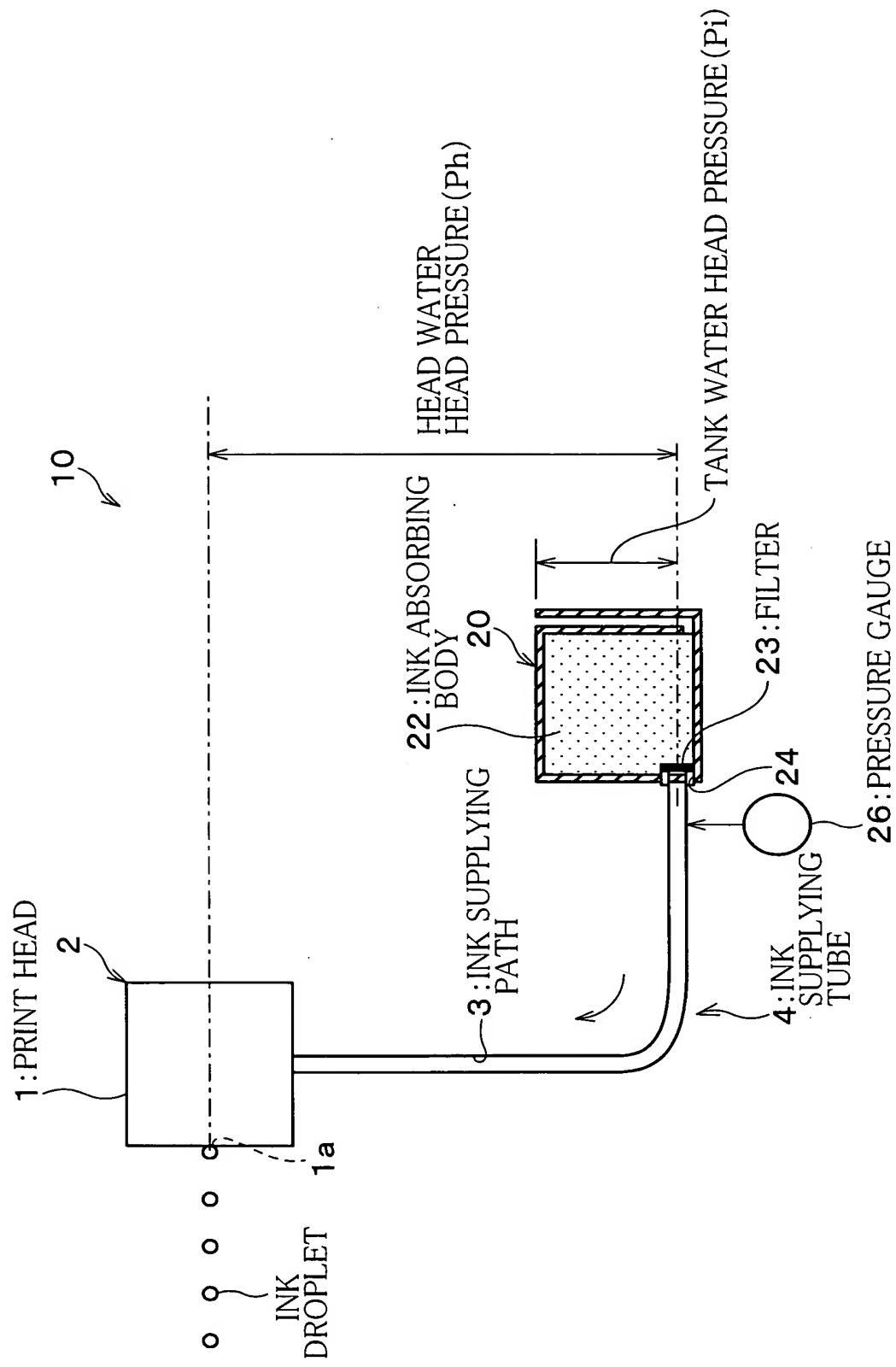


FIG. 4 (a)

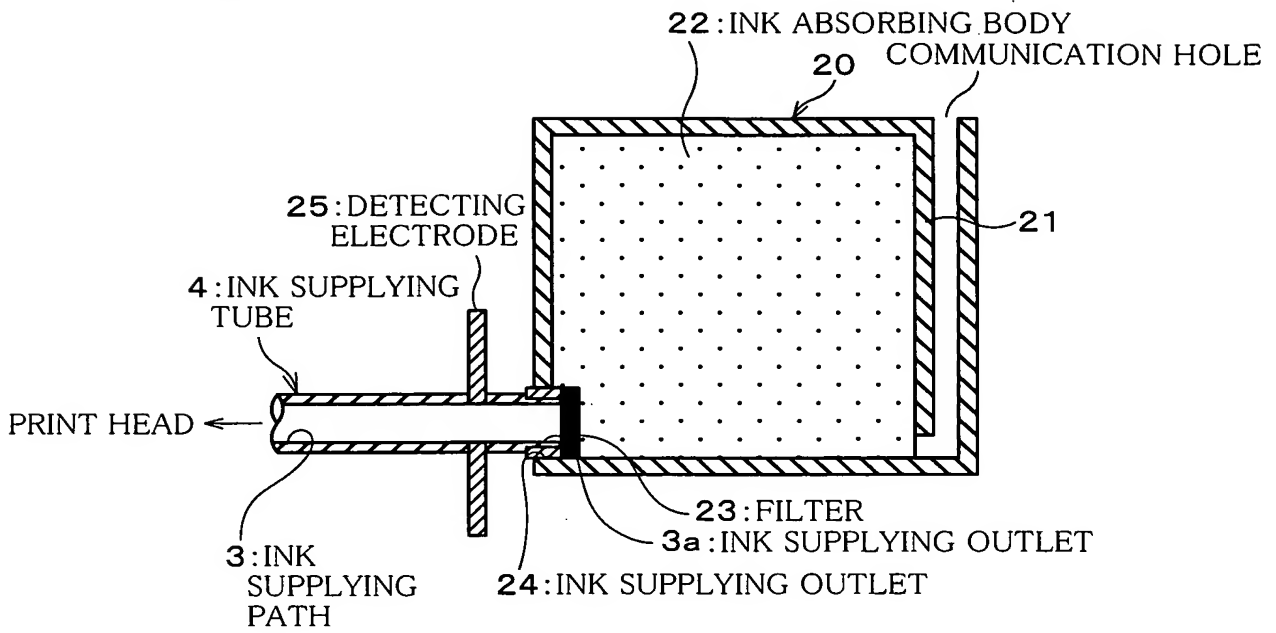


FIG. 4 (b)

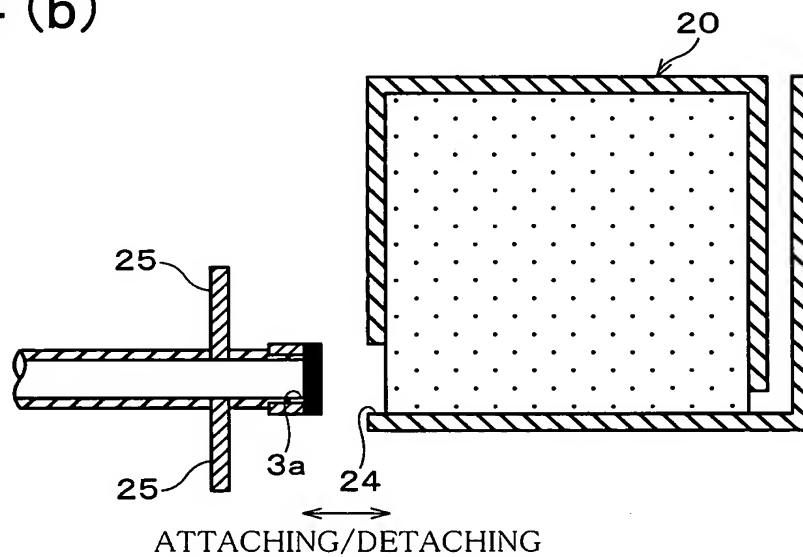


FIG. 4 (c)

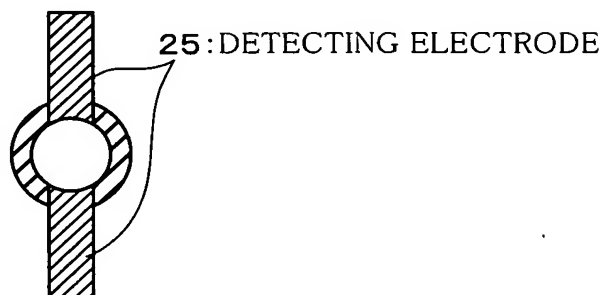


FIG. 5

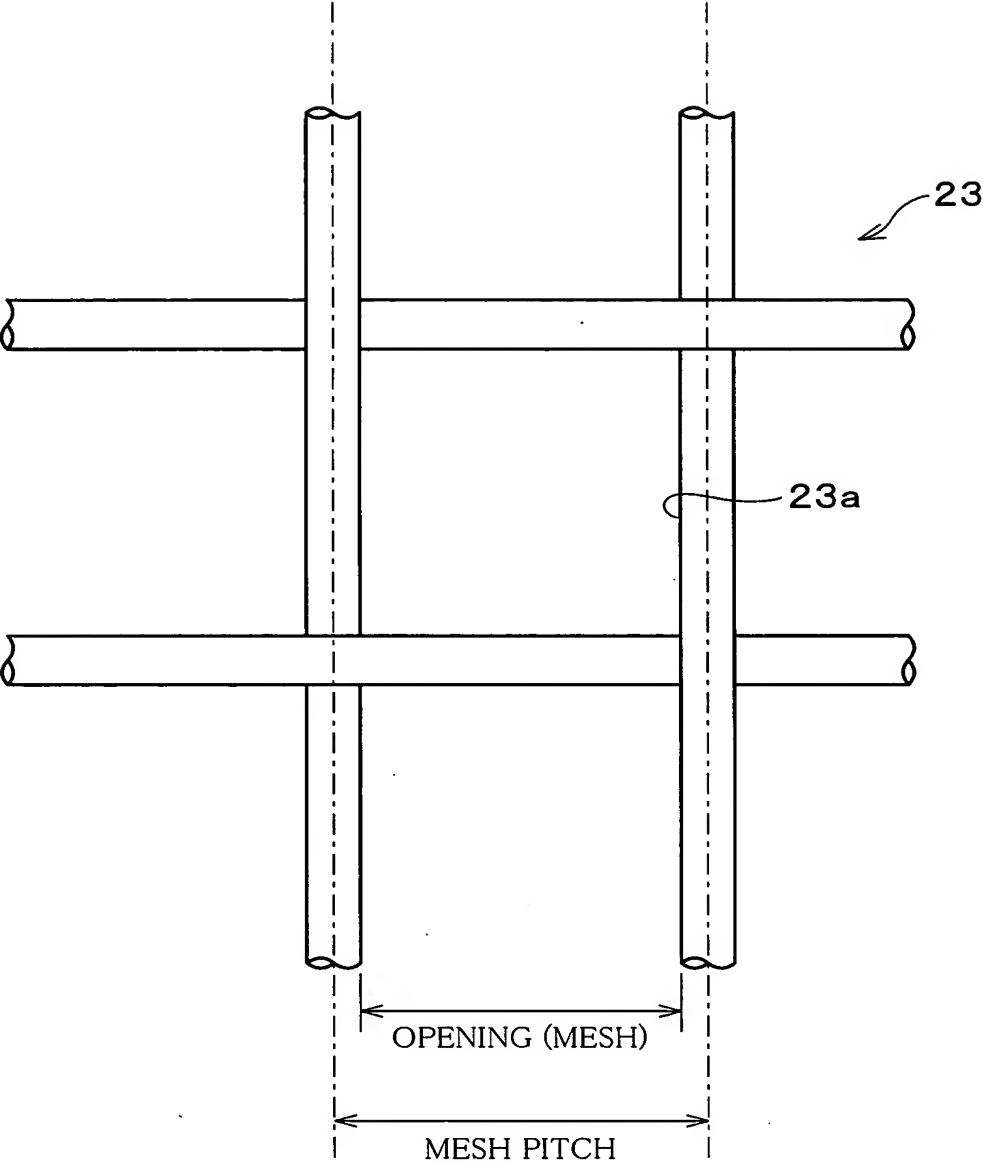


FIG. 6

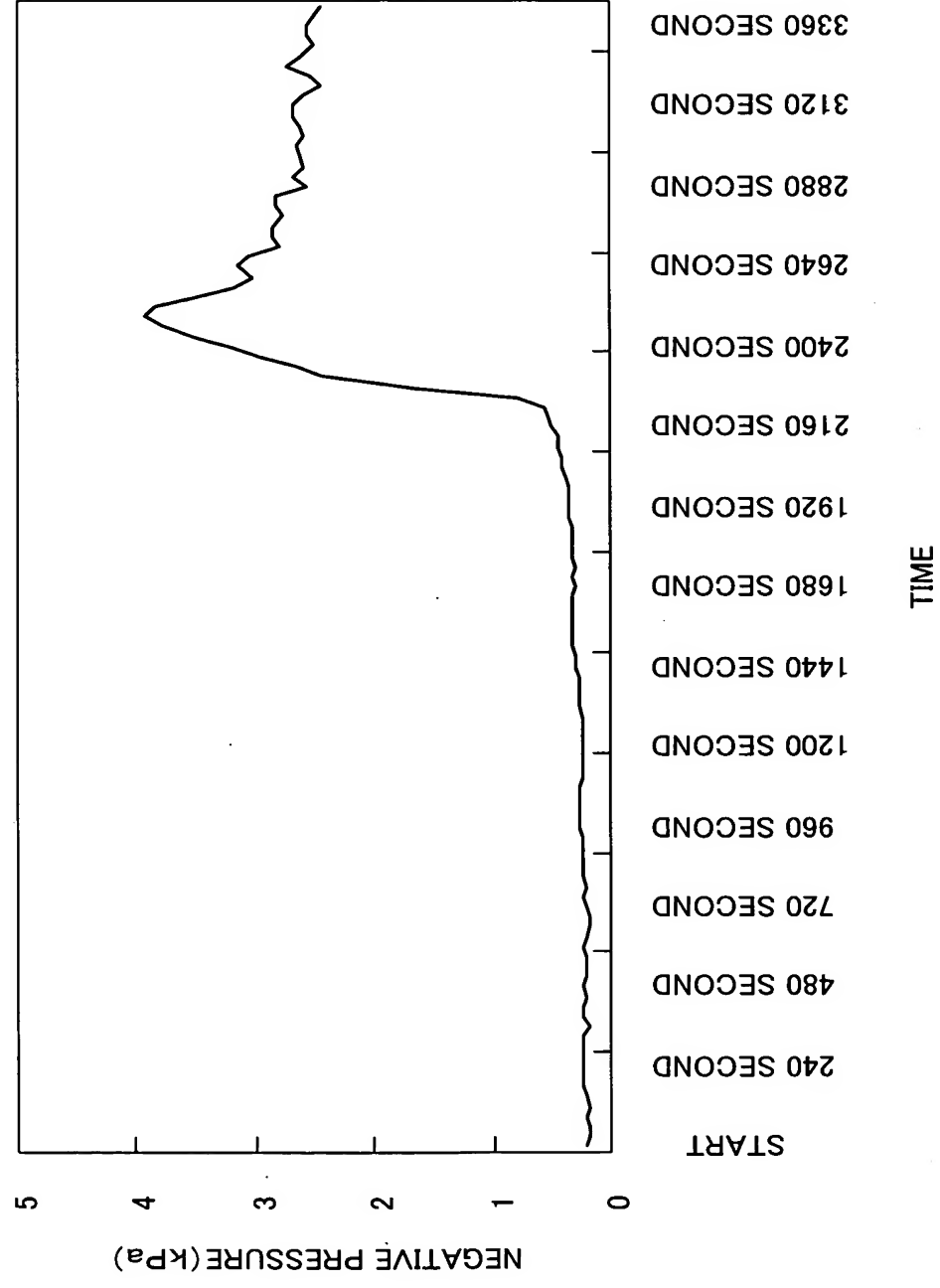
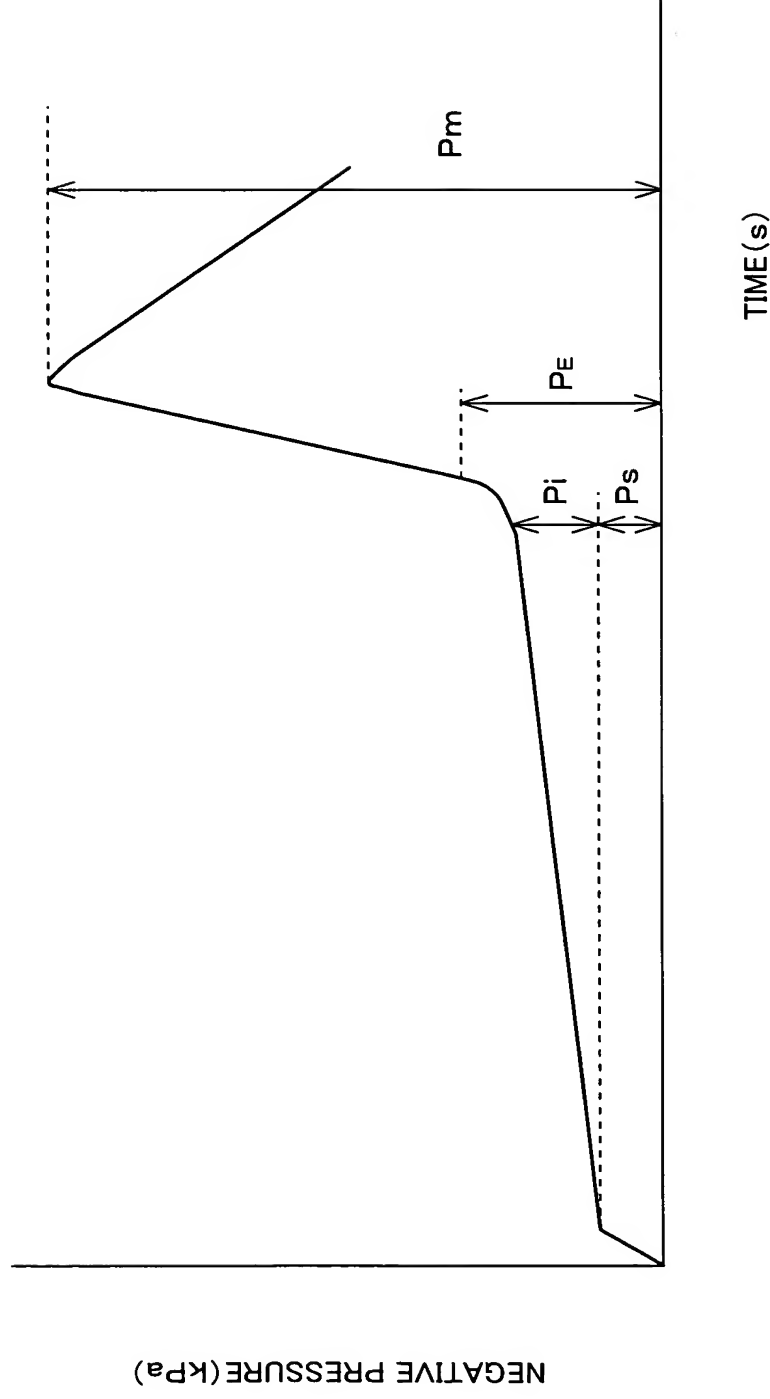


FIG. 7



P_s : NEGATIVE PRESSURE DUE TO VISCOSITY WHEN INK TANK IS FULL OF INK

P_i : INK TANK WATER HEAD PRESSURE (TANK WATER PRESSURE)

P_E : CRITICAL PRESSURE DUE TO INK ABSORBING BODY WHEN INK TANK IS EMPTY OF INK

P_m : CRITICAL PRESSURE DUE TO FILTER

FIG. 8

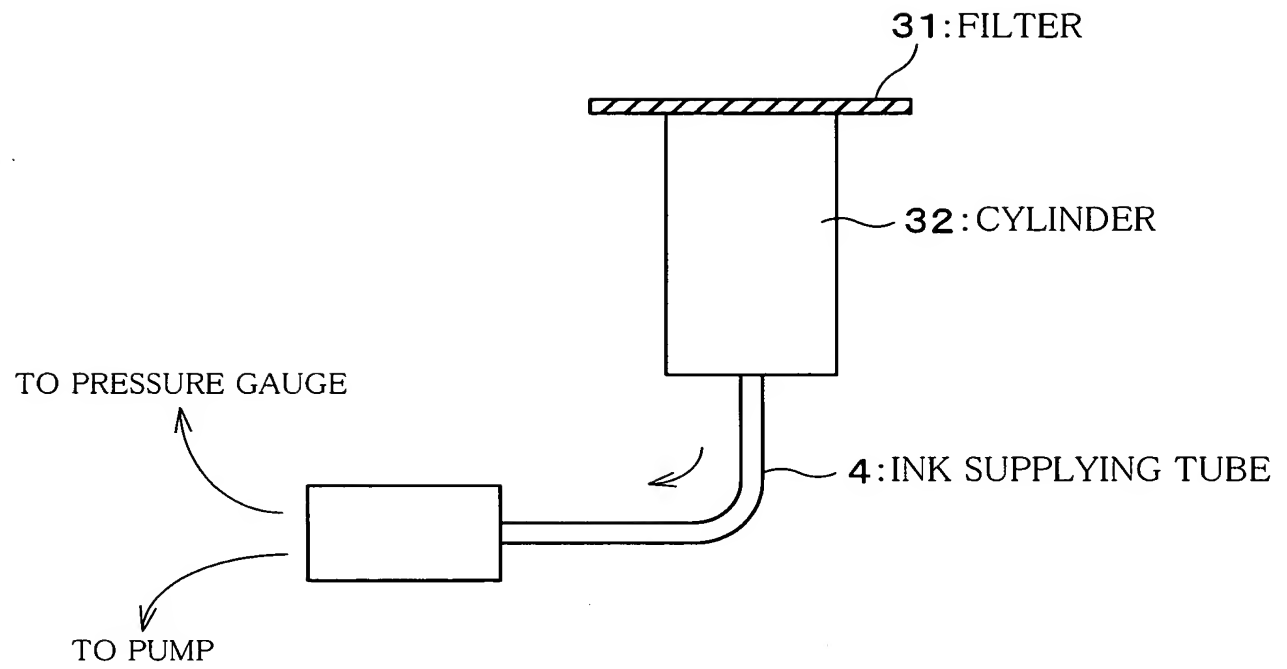


FIG. 9

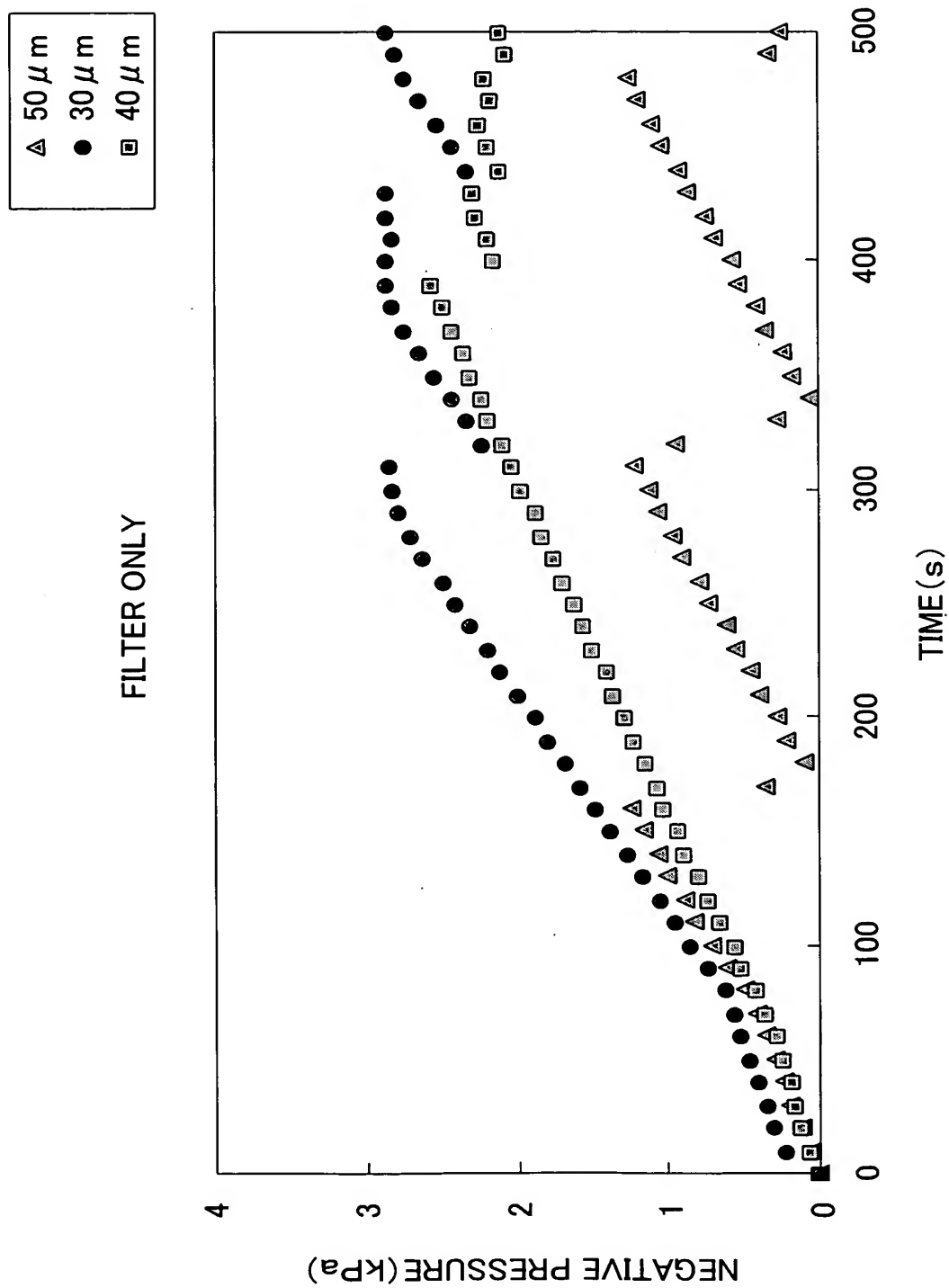


FIG. 10

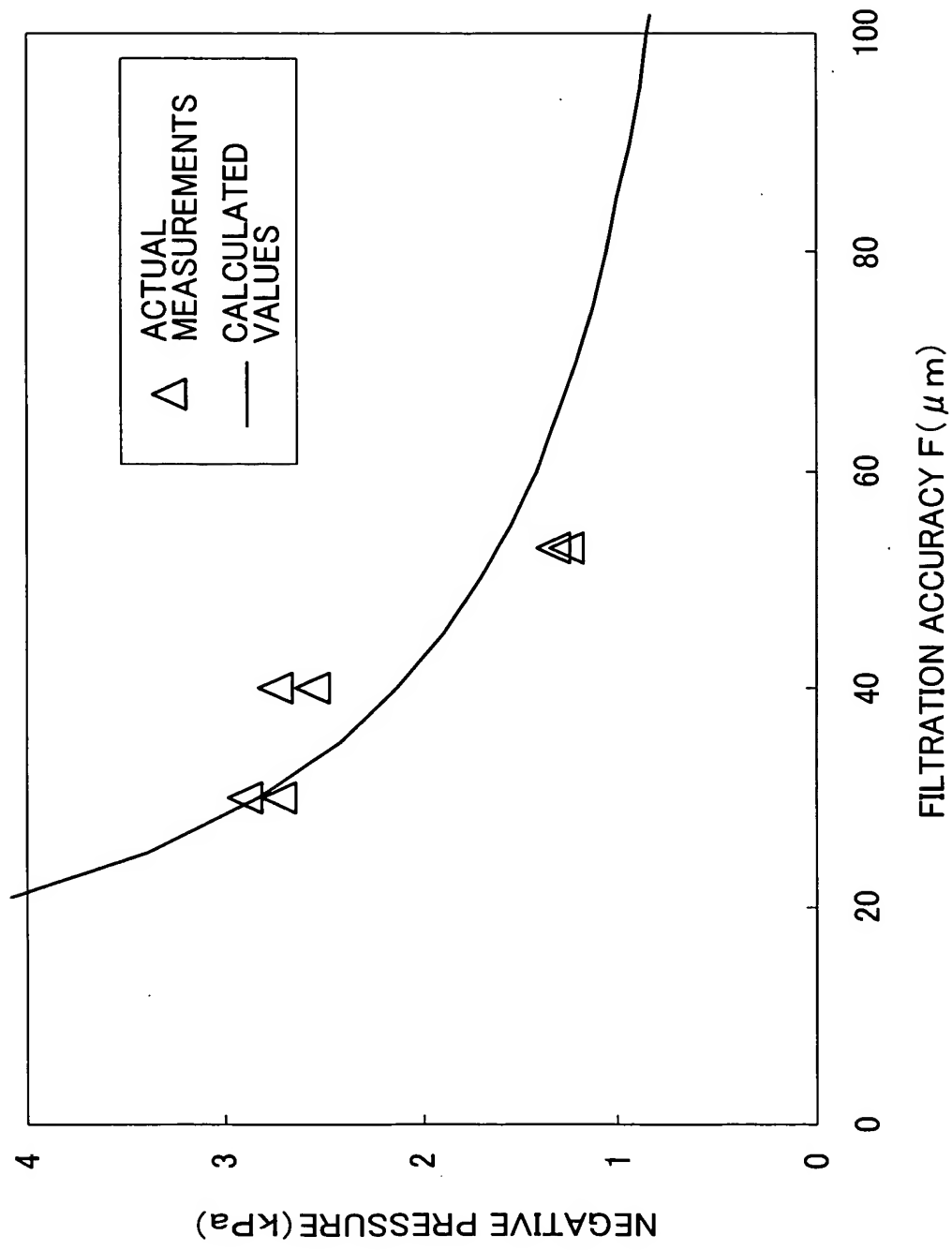


FIG. 11

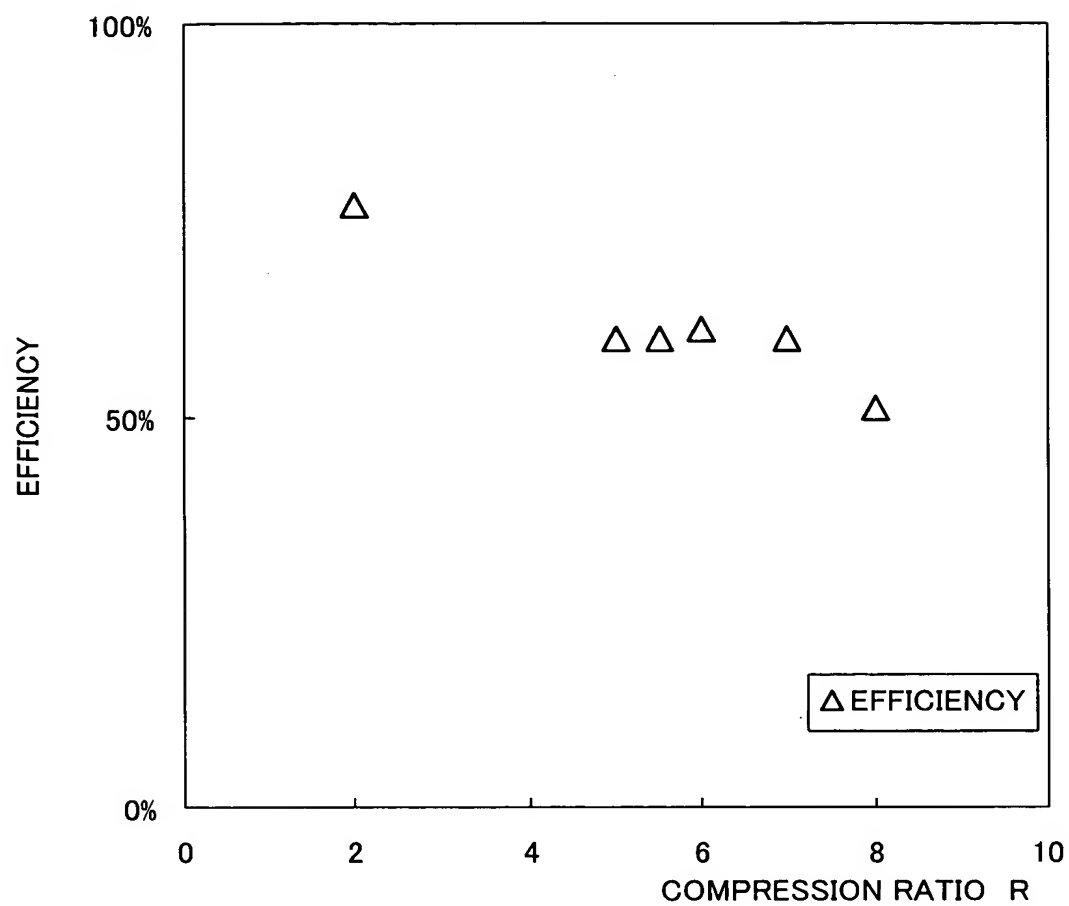


FIG. 12

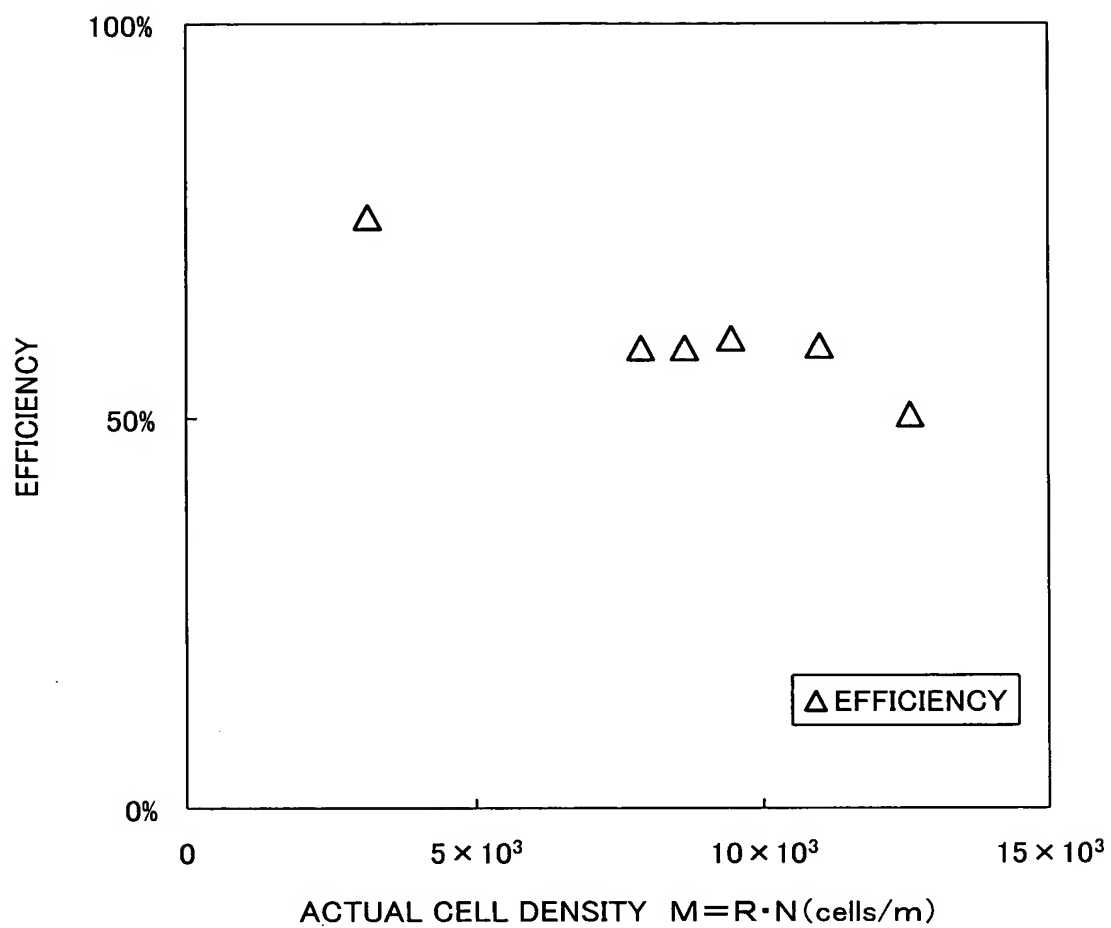


FIG. 13

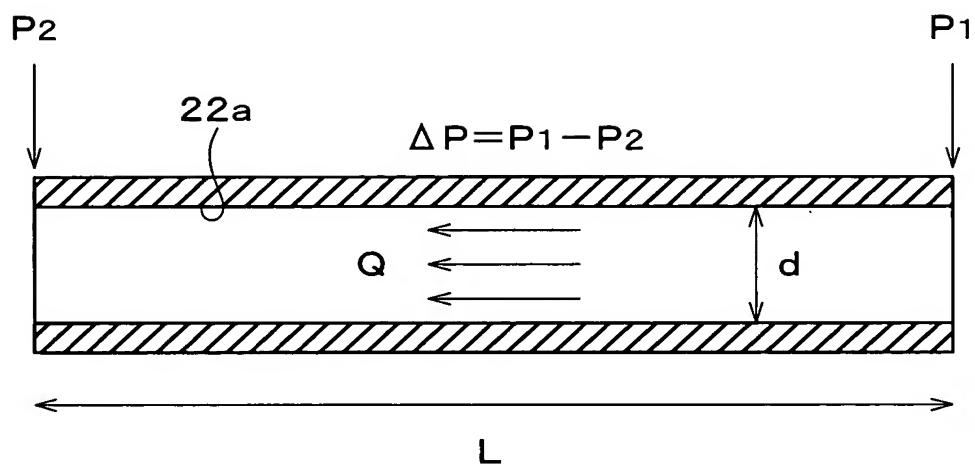


FIG. 14

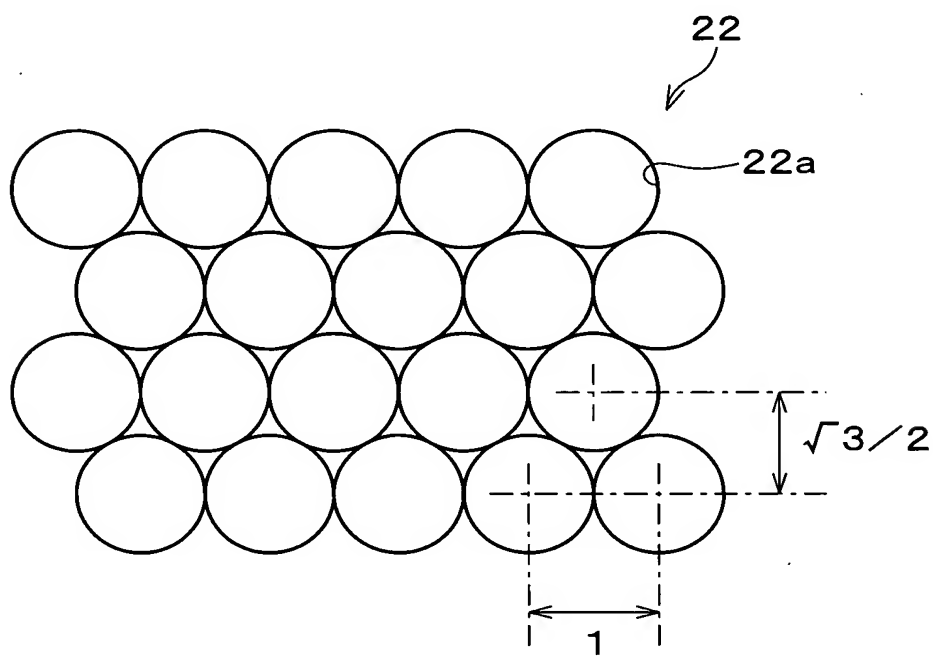


FIG. 15

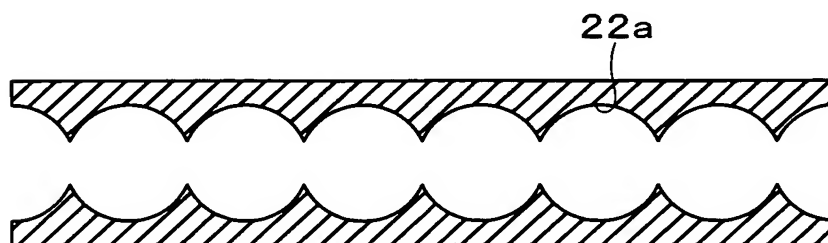
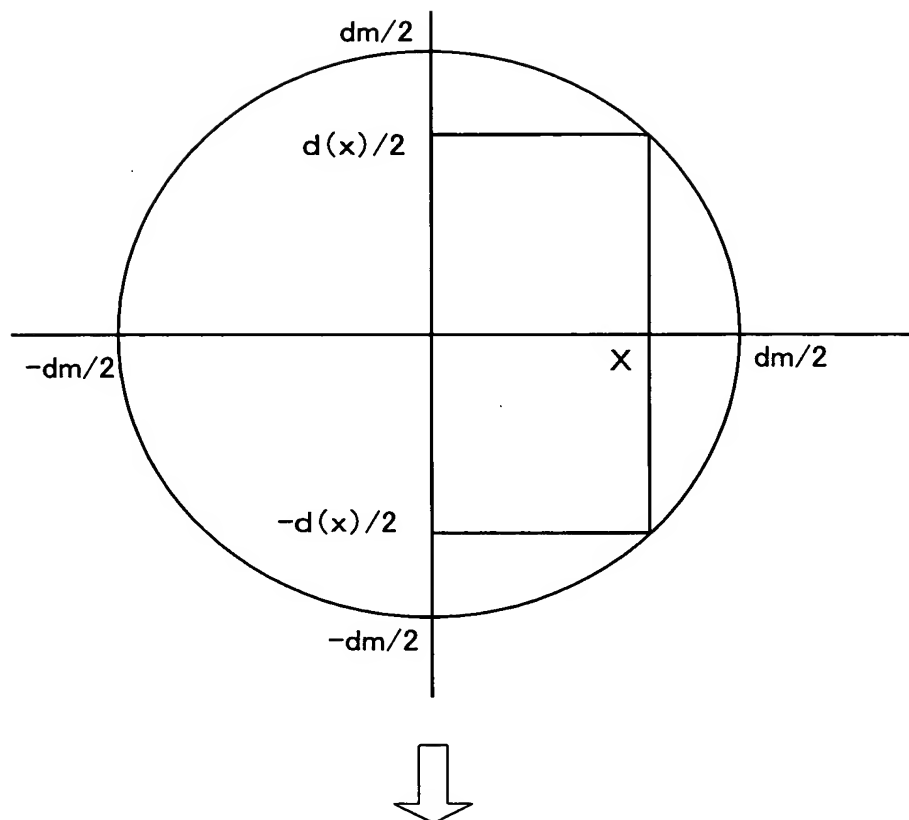


FIG. 16



$$R_d = \int_0^x \frac{1}{\{ 2\sqrt{(dm/2)^2 - X^2} \}^4} dX$$

$$R_m = \int_0^x \frac{1}{dm^4} dX$$

FIG. 17

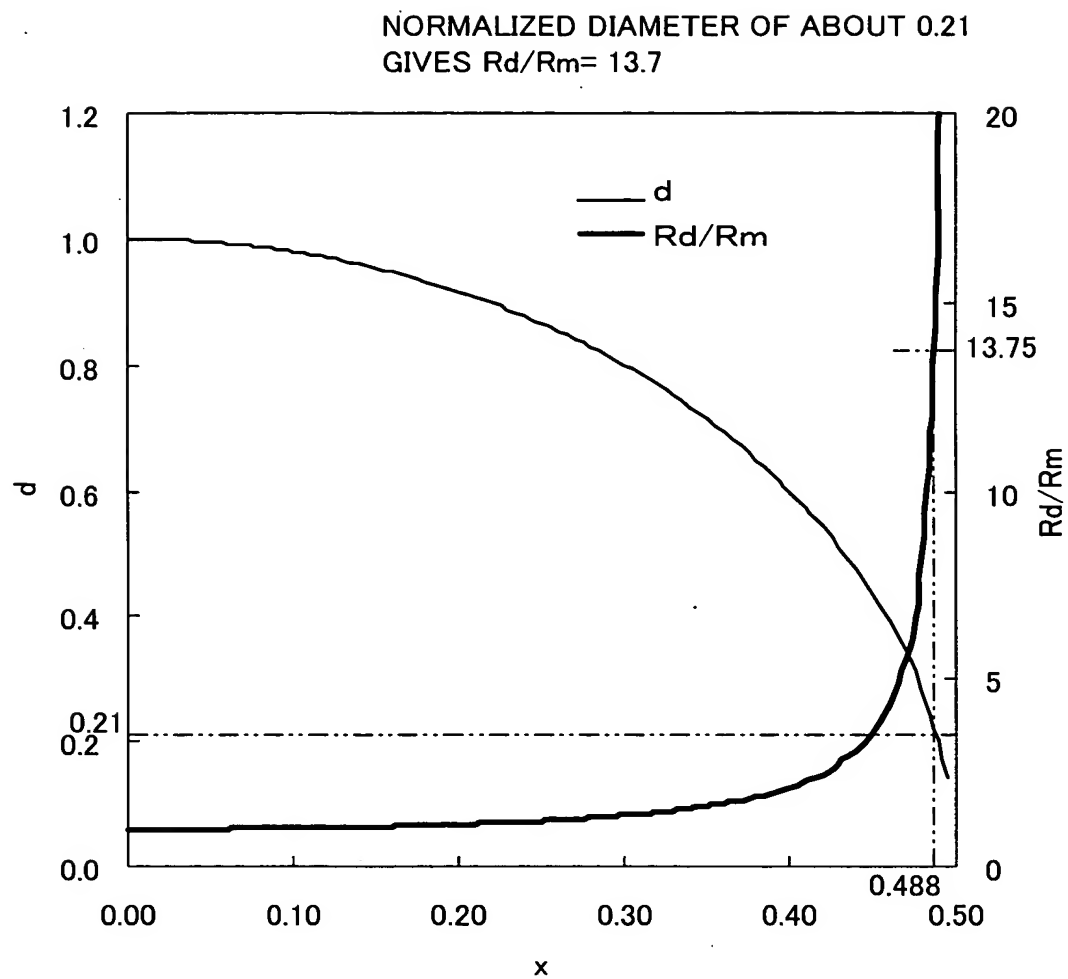


FIG. 18

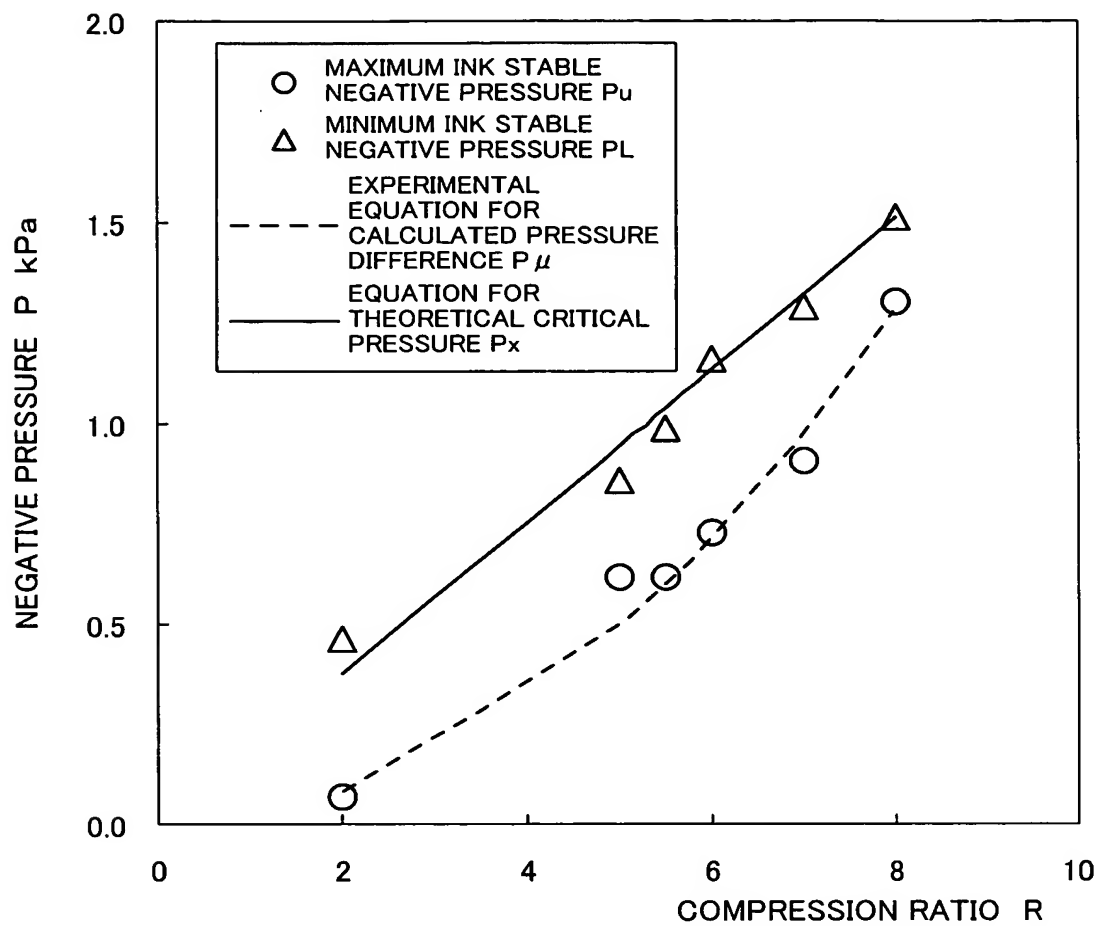
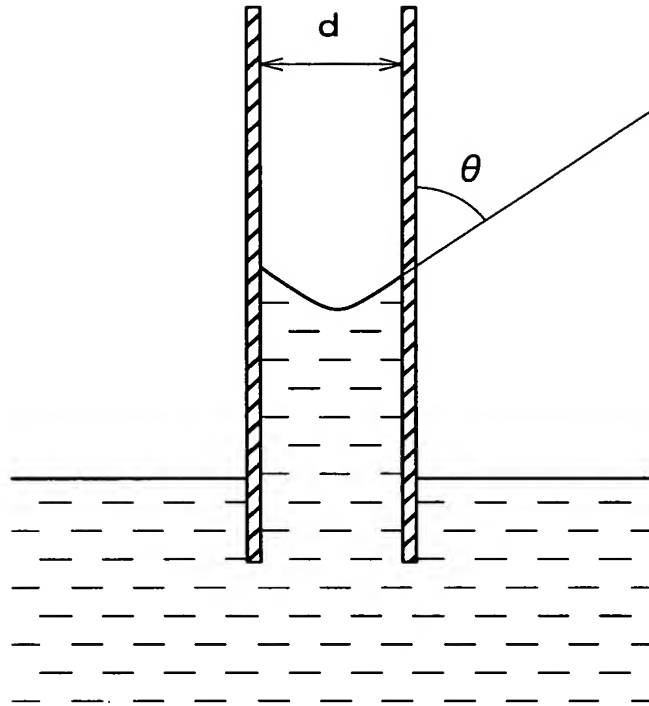
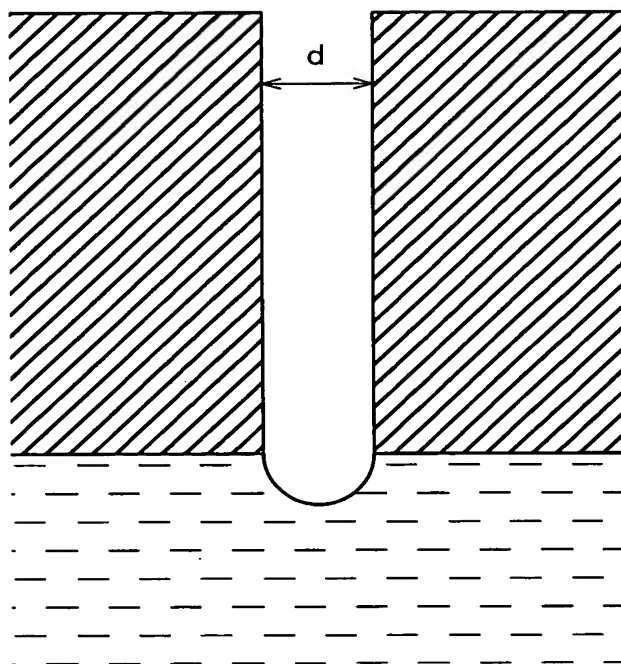


FIG. 19



$$P_t = 4 \eta \cos \theta / d$$

FIG. 20



$$P_t = 4 \eta / d$$

FIG. 21

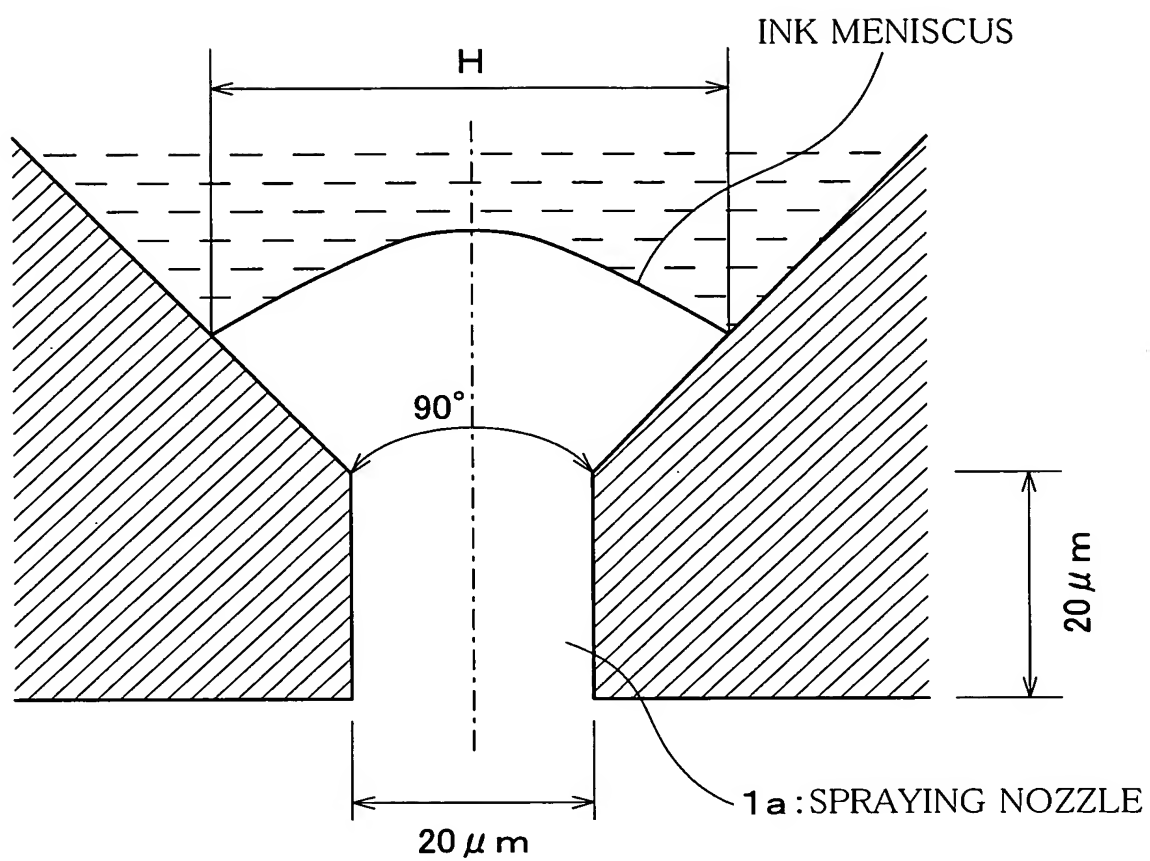


FIG. 22 (a)

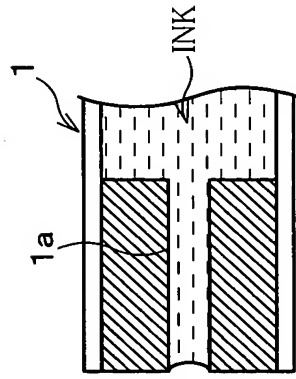


FIG. 22 (b)

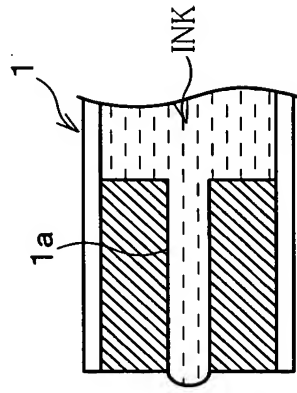


FIG. 22 (c)

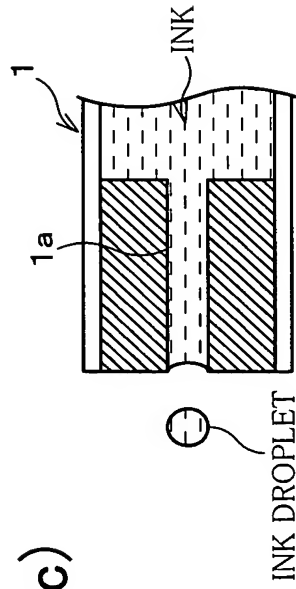


FIG. 22 (d)

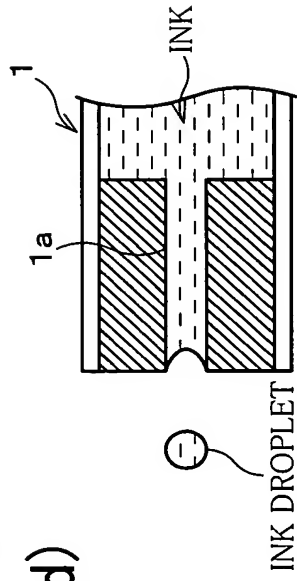


FIG. 22 (e)

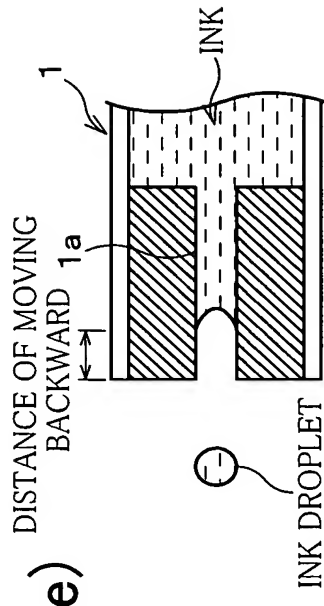


FIG. 22 (f)

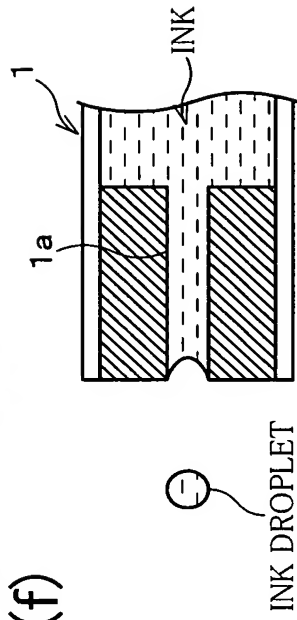


FIG. 22 (g)

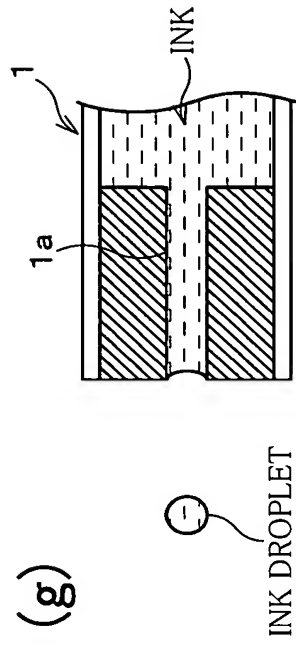


FIG. 22 (h)

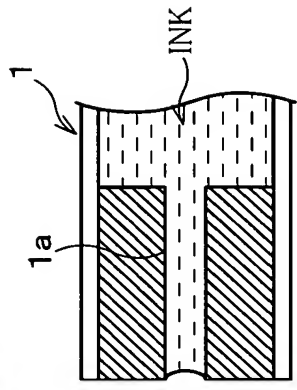


FIG. 23 (a)

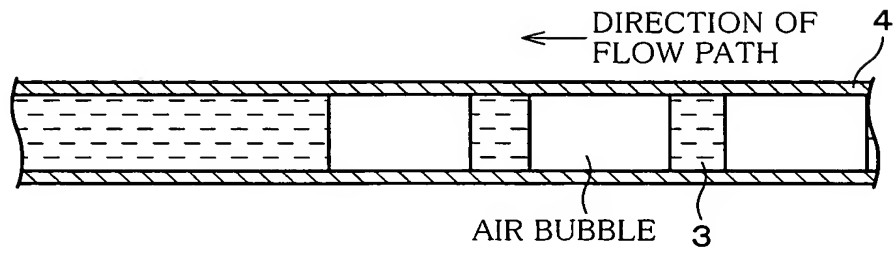


FIG. 23 (b)

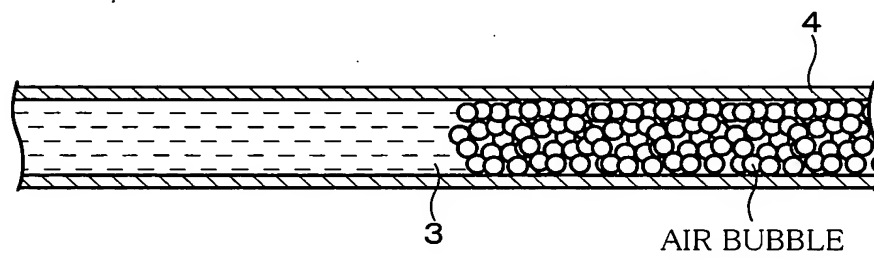


FIG. 24

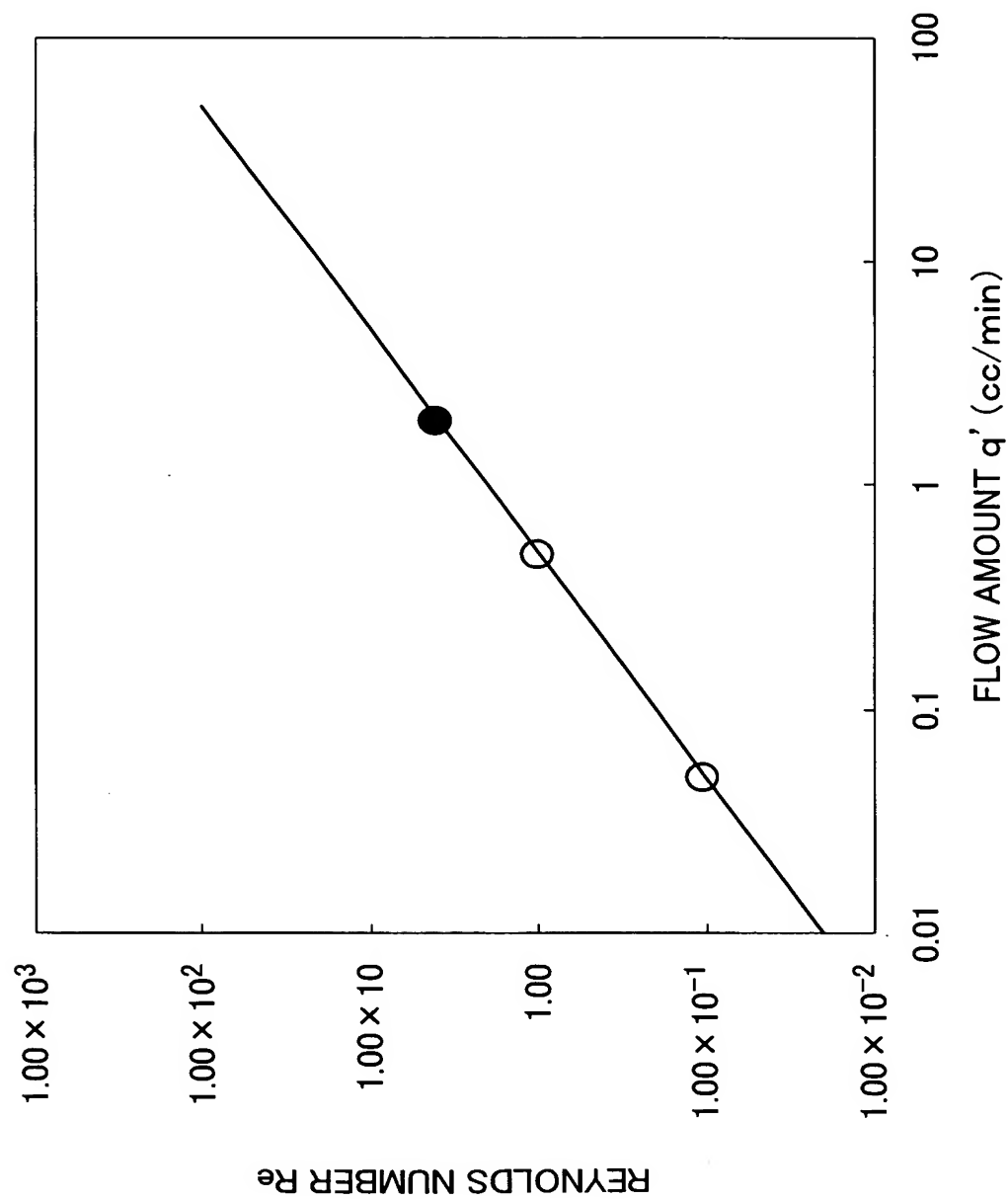


FIG. 25

